

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
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Gou SHINOHARA et al.)	Group Art Unit: Unassigned
)	
Application No.: Unassigned)	Examiner: Unassigned
)	
Filed: September 25, 2003)	Confirmation No.: Unassigned
)	
For: AGENT FOR IMPROVING BONE)	
METABOLISM)	
)	

**FIRST
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed along with a copy of the International Search Report.

All the enclosed publications and Japanese Patent Nos. 7-215849 and 11-130670 are discussed in the specification.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since document is being filed within the time period set forth in 37 C.F.R. § 1.97(b) no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: September 25, 2003

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Substitute for forms 1449A/PTO & 1449B/PTO

**FIRST INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**ATTORNEY'S DKT No.
018995-738APPLICATION No.
UnassignedAPPLICANT
Gou SHINOHARA et al.FILING DATE
September 25, 2003GROUP
Unassigned**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No
	WO 99/67809		WIPO	12-29-1999	
	2001-158736		Japan	06-12-2001	Abst
	7-215849		Japan	08-15-1995	X
	11-130670		Japan	05-18-1999	X

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Yasuko KOSHIHARA, "Vitamin K and Bone Metabolism," Bulletin of Oil & Fat Chemical Society, 1996, pp. 435-443, Vol. 45, No. 5, Japan.
	Naoyuki TAKAHASHI et al., "Osteoblastic Cells Are Involved In Osteoclast Formation," The Endocrine Society, 1988, pp. 2600-2602, Vol. 123, No. 5, USA.
	Hidehiko HIBINO et al., "N-3 Polyunsaturated Fatty Acids and Bone Metabolism: Beneficial Effects of Eicosapentaenoic Acid," Bulletin of Oil & Fat Chemical Society, 2000, pp. 1391-1399, Vol. 49, Nos. 11 and 12, Japan.
	Yong LI, et al., "Conjugated Linoleic Acids Alter Bone Fatty Acid Composition and Reduce ex vivo Prostaglandin E ₂ Biosynthesis in Rats Fed n-6 or n-3 Fatty Acids," Lipids, 1998, pp. 417-425, Vol. 33, No. 4, USA.
	Y. KOSHIHARA et al., "VITAMIN K ₂ Promotes 1 α ,25(OH) ₂ Vitamin D ₃ -Induced Mineralization in Human Periosteal Osteoblasts," Calcified Tissue International, 1996, pp. 59:466-473, USA.

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.